

Amendments to the Specification

Insert the following heading before paragraph [0001] as follows:

FIELD OF THE INVENTION

Add the following heading after paragraph [0001]:

BACKGROUND

Add the following heading after paragraph [0004]:

SUMMARY OF THE INVENTION

Replace paragraph [0011] with the following amended paragraph:

[0011] In the air conditioning system according to an embodiment of the present invention, the high temperature of the high-pressure gas is used for heating a cooling water circuit via a heat exchanger. Moreover, an air conditioning system is preferred, in which a cooling water circuit heats the supply air of the passenger compartment via a heat exchanger. Also preferred is an air conditioning system, in which a throttling device or an expansion valve is located downstream of the heat exchanger. Moreover, an air conditioning system is preferred, in which a check valve is located downstream of the throttling device ~~after~~ or the expansion valve; the check valve preventing refrigerant from flowing from the refrigeration circuit into the heating circuit.

Add the following heading before paragraph [0023]:

BRIEF DESCRIPTION OF THE DRAWINGS

Add the following heading before paragraph [0026]:

DETAILED DESCRIPTION

Replace paragraph [0026] with the following amended paragraph:

[0026] Referring to Figure 1, a compressor 1 is connected to a valve 5 on its high-pressure side 3; i.e., on the side on which the refrigerant has become very hot because of the compression. Valve 5 is capable of splitting the high-pressure refrigerant flow exiting compressor 1 into two flow paths, a flow path 7 for the refrigeration circuit and a flow path 9 for the heating circuit. Flow path 7 continues, in a known manner, to a gas cooler 11, in which the heated high-pressure gas is cooled down.